

Solution (Compare Them)

The probability of getting at least one six is one minus the probability of getting none.

$$p(\textit{at least one six}) = 1 - (5/6)^4 = 0.518 \dots$$

Similarly the probability of getting at least one twelve is one minus the probability of getting none.

$$p(\textit{at least one twelve}) = 1 - (35/36)^{24} = 0.491 \dots$$

The probability of getting at least one six in four rolls is greater.